•	Application No.	Applicant(s)		
Notice of Allowability	10/602,828 NAI		NAKAMURA ET AL.	
Notice of Allowability	Examiner	Art Unit		
	Tuan T Dinh	2841		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.				
1. This communication is responsive to <u>06/25/03</u> .				
2. The allowed claim(s) is/are <u>1-42</u> .				
3. The drawings filed on <u>25 June 2003</u> are accepted by the Examiner.				
 4. Acknowledgment is made of a claim for foreign priority una a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 6. CORRECTED DRAWINGS (as "replacement sheets") must be including changes required by the Notice of Draftspers 	e been received. e been received in Application No cuments have been received in this r of this communication to file a reply of IENT of this application. itted. Note the attached EXAMINER' es reason(s) why the oath or declarate of the submitted. son's Patent Drawing Review (PTO-5)	national stage applica complying with the red S AMENDMENT or N tion is deficient.	quirements	
 hereto or 2) to Paper No./Mail Date including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 				
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).				
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.				
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 06/25/03 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	5. Notice of Informal Page 1	(PTO-413), e nent/Comment		

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-42 are allowed.

The following is an examiner's statement of reasons for allowance: the references cited disclose a printed circuit board comprising: a metal sheet, a dielectric film for a capacitor, first and second electrically conductive layers, a resin layer, first and second via for electrical connections, and some other claimed elements. However, they do not disclose or render in combination of the second via for electrical connection to the metal sheet not being provided with the dielectric film for the capacitor, nor with the first and second electrically conductive layers, on the metal sheet in the second via for electrical connection to the metal sheet, the second via for electrical connection extending throughout the resin layer until reaching the metal sheet, the second via for electrical connection including a second electrode of an electrically conductive member deposited therein, the second electrode being electrically insulated from the first electrically conductive layer by an insulating member provided between the second electrode and the first electrically conductive layer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/602,828

Art Unit: 2841

Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Cole, Jr. et al., Inagaki et al., Cooray, and Ogawa et al. Disclose related art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T Dinh whose telephone number is 571-272-1929. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kammie Cuneo can be reached on 571-272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tuan Dinh December 09, 2004.

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